

7-1: Power Functions

- What does powering mean?
- What is another word for powering?
- What is a base?
- What is an exponent?
- What is a power?
- The coefficient of a power function is always _____.
- What are the n^{th} , identity, squaring, and cubing functions?
- What point is always on a powering function?
- If you have the point $(-2, -32)$, what other point will be on the graph?
- Odd power functions have _____ symmetry, and even power functions have _____ symmetry.
- What do the graphs for even and odd power functions look like?

7-2: Properties of Powers

- What is the product of powers?
- What is the power of a power?
- What is the power of a product?
- What is the quotient of powers?
- What is the power of a quotient?
- What is the zero exponent theorem?
- **BE ABLE TO USE ALL OF THESE PROPERTIES!!!**

7-3: Negative Integer Exponents

- What is the negative exponent theorem?
- **BE ABLE TO USE THIS, TOO!!!**

7-4: Compound Interest

- What does compounding mean?
- What is the Annual Compound Interest Formula?
- What is the General Compound Interest Formula?
- What is the difference between the two formulas?
- What does it mean to compound semi-annually, quarterly, and monthly?

7-5: Geometric Sequences

- What is the recursive formula for a geometric sequence?
- What is the constant ratio?
- How do you find the constant ratio?
- What is the explicit formula for a geometric sequence?
- What makes a sequence geometric?
- **BE ABLE TO FIND BOTH FORMULAS FOR A GIVEN SEQUENCE!!!**

7-6: n^{th} Roots

- What is an n^{th} root?
- What is the $1/n$ exponent theorem?
- What is the number of real roots theorem?
- Be able to find n^{th} roots without the calculator, and also approximate with a calculator.

7-7: Positive Rational Exponents

- What is the rational exponent theorem?
- Make sure you show all steps necessary for this type of problem.

7-8: Negative Rational Exponents

- What is the difference between positive and negative rational exponents?
- Make sure you show all steps necessary for this type or problem.

*****Check the Chapter 7 wiki page for Wiki Summary assignments!!!*****

Chapter 7 Projects (p. 469-70) are due the day *after* the Chapter 7 Test Part II. You may work with one partner, and you should begin working on it sooner rather than later. We will use the same rubric as the other chapters.